

Permit Number / Project: _____

Wind Speed: _____ mph

Braced wall line ID ➔																			
Story ➔																			
Braced wall line criteria ➔																			
Average spacing to next parallel BWL (ft)																			
Tabular required length of bracing (ft)																			
Adjust tabular value	Exposure factor (see table)		X		X		X		X		X		X		X		X		
	Roof eave-to-ridge height factor (see table)		X		X		X		X		X		X		X		X		
	Wall height factor (see table)		X		X		X		X		X		X		X		X		
	Number of BWLs factor (in plan direction) 2 BWLs = 1.0 3 BWLs = 1.3 4 BWLs = 1.45 ≥ 5 BWLs = 1.6		X		X		X		X		X		X		X		X		
	Omit interior finish material factor = 1.4		X		X		X		X		X		X		X		X		
	Interior gypsum board fastener spacing reduced to 4" o.c., factor = 0.7		X		X		X		X		X		X		X		X		
Adjusted required length of bracing (ft) ➔																			
Braced Wall Line	Contributing length per Table R602.10.5	BWP ↓	Method	Contributing length (ft)															
		1																	
		2	+		+		+		+		+		+		+		+		
		3	+		+		+		+		+		+		+		+		
		4	+		+		+		+		+		+		+		+		
		5	+		+		+		+		+		+		+		+		
		6	+		+		+		+		+		+		+		+		
		7	+		+		+		+		+		+		+		+		
Total contributing length of wall bracing ➔																			
Total contributing ≥ adjusted required?			Y - N		Y - N		Y - N		Y - N		Y - N		Y - N		Y - N		Y - N		
Spacing	BWP's spaced ≤ 20' edge-to-edge		Y - N - NA		Y - N - NA		Y - N - NA		Y - N - NA		Y - N - NA		Y - N - NA		Y - N - NA		Y - N - NA		
	Length of BWL (ft)																		
No. of BWPs	BWL has min. 2 BWP's or BWL ≤ 16' has 1-4# BWP		Y - N		Y - N		Y - N		Y - N		Y - N		Y - N		Y - N		Y - N		
	BWP at or begins within 10' of end		Y - N Y - N		Y - N Y - N		Y - N Y - N		Y - N Y - N		Y - N Y - N		Y - N Y - N		Y - N Y - N		Y - N Y - N		
BWL ends	Continuous sheathing only: end condition per Figure R602.10.7		1 2 3 1 2 3	1 2 3 1 2 3	1 2 3 1 2 3	1 2 3 1 2 3	1 2 3 1 2 3	1 2 3 1 2 3	1 2 3 1 2 3	1 2 3 1 2 3	1 2 3 1 2 3	1 2 3 1 2 3	1 2 3 1 2 3	1 2 3 1 2 3	1 2 3 1 2 3	1 2 3 1 2 3	1 2 3 1 2 3	1 2 3 1 2 3	
	4 5 4 5		4 5 4 5	4 5 4 5	4 5 4 5	4 5 4 5	4 5 4 5	4 5 4 5	4 5 4 5	4 5 4 5	4 5 4 5	4 5 4 5	4 5 4 5	4 5 4 5	4 5 4 5	4 5 4 5	4 5 4 5	4 5 4 5	
BWL compliance			Pass		Fail		Pass		Fail		Pass		Fail		Pass		Fail		

TABLE R602.10.3(1) BRACING REQUIRED BASED ON WIND					
	Minimum total length of braced wall panels required along each bracedwall line (ft) ^a				
	BWL SPACING	LIB	GB	DWB, WSP, SFB, PBS, PCP, HPS, CS-SFB	CS-WSP, CS-G, CS-PF
	10	3.5	3.5	2.0	2.0
	20	7.0	7.0	4.0	3.5
	30	9.5	9.5	5.5	5.0
	40	12.5	12.5	7.5	6.0
	50	15.5	15.5	9.0	7.5
	60	18.5	18.5	10.5	9.0
	10	7.0	7.0	4.0	3.5
	20	13.0	13.0	7.5	6.5
	30	18.5	18.5	10.5	9.0
	40	24.0	24.0	14.0	12.0
	50	29.5	29.5	17.0	14.5
	60	35.0	35.0	20.0	17.0
	10	NP	10.5	6.0	5.0
	20	NP	19.0	11.0	9.5
	30	NP	27.5	15.5	13.5
	40	NP	35.5	20.5	17.5
	50	NP	44.0	25.0	21.5
	60	NP	52.0	30.0	25.5

TABLE R602.10.3(2) WIND ADJUSTMENT FACTORS				
Adjustment	Story/Supporting	Cond.	Factor ^{a,b}	
Exposure Category	One-story structure	B	1.00	
		C	1.20	
		D	1.50	
	Two-story structure	B	1.00	
		C	1.30	
		D	1.60	
	Three-story structure	B	1.00	
		C	1.40	
		D	1.70	
Roof Eave-to-Ridge Height Adjustment	Roof only	≤5 ft	0.70	
		10 ft	1.00	
		15 ft	1.30	
		20 ft	1.60	
	Roof + 1 floor	≤5 ft	0.85	
		10 ft	1.00	
		15 ft	1.15	
		20 ft	1.30	
	Roof + 2 floors	≤5 ft	0.90	
		10 ft	1.00	
		15 ft	1.10	
		20 ft	NP	
Wall Height Adjustment	Any story	8 ft	0.90	
		9 ft	0.95	
		10 ft	1.00	
		11 ft	1.05	
		12 ft	1.10	

Footnotes:
a. Linear interpolation allowed

Footnotes:
a. Linear interpolation allowed
b. Use actual provided it is ≥ min. length
c. Max header height is 10', however it may be increased to 12' with pony wall per Table R602.10.6.4

TABLE R602.10.5 MINIMUM LENGTH OF BRACED WALL PANELS							
METHOD	MINIMUM LENGTH (in) ^a					Contributing Credit Length (in)	
	Wall Height (ft)						
	8 ft	9 ft	10 ft	11 ft	12 ft		
DWG, WSP, SFB, PBS, PCP, HPS	48 in	48 in	48 in	53 in	58 in	Actual ^b	
	48 in	48 in	48 in	53 in	58 in	Double sided = Actual Single sided = .05 x actual	
GB	55 in	62 in	69 in	NP	NP	Actual ^b	
	28 in	32 in	34 in	38 in	42 in	48 in	
LIB	16 in	16 in	16 in	18 in ^c	20 in ^c	48 in	
	24 in	24 in	24 in	27 in ^c	29 in ^c	48 in	
ABW	24 in	27 in	30 in	33 in ^c	36 in ^c	1.5 x actual ^b	
	24 in	27 in	30 in	33 in	36 in	Actual ^b	
PFH	16 in	18 in	20 in	22 in ^c	24 in ^c	Actual ^b	
	24 in	27 in	30 in	33 in	36 in	Actual ^b	
CS-WSP CS-SFB	Adjacent Opening Height						
	≤ 64 in	24 in	27 in	30 in	33 in	36 in	
	68 in	36 in	37 in	30 in	33 in	36 in	
	72 in	27 in	27 in	30 in	33 in	36 in	
	76 in	30 in	29 in	30 in	33 in	36 in	
	80 in	32 in	30 in	30 in	33 in	36 in	
	84 in	35 in	32 in	32 in	33 in	36 in	
	88 in	38 in	35 in	33 in	33 in	36 in	
	92 in	43 in	37 in	35 in	35 in	36 in	
	96 in	48 in	41 in	38 in	36 in	36 in	
	100 in		44 in	40 in	38 in	38 in	
	104 in		49 in	43 in	40 in	39 in	
	108 in		54 in	46 in	43 in	41 in	
	112 in			50 in	45 in	43 in	
	116 in			55 in	48 in	45 in	
	120 in			60 in	52 in	48 in	
	124 in				56 in	51 in	
	128 in				61 in	54 in	
	132 in				66 in	58 in	
	136 in					62 in	
	140 in					66 in	
	144 in					72 in	

TABLE R602.10.5.2 PARTIAL CREDIT FOR BRACED WALL PANELS LESS THAN 48 INCHES IN ACTUAL LENGTH ^a		
Actual Length of Braced Wall Panel (in)	Contributing Length of BWP	
	8 ft wall height	9 ft wall height
48	48	48
42	36	36
36	27	NA

Footnotes:
a. Linear interpolation is permitted

Footnotes:
a. Linear interpolation is permitted
b. Total adjustment factor is the product of all applicable adjustment factors